(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 23 October 2003 (23.10.2003)

PCT

(10) International Publication Number WO 03/087014 A1

(51) International Patent Classification⁷: C22C 29/18, H05B 3/14

C04B 35/58,

(21) International Application Number: PCT/SE03/00379

(22) International Filing Date: 6 March 2003 (06.03.2003)

(25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data:

0201042-9

5 April 2002 (05.04.2002) SE

(71) Applicant (for all designated States except US): SAND-VIK AB [SE/SE]; S-811 81 Sandviken (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SUNDBERG, Mats [SE/SE]; Liljanstorpsvägen 57, S-722 46 Västerås (SE). PETTERSSON, Hans [SE/SE]; Rallsta 20B, S-734 91 Hallstahammar (SE). MAGNUSSON, Anders [SE/SE]; Skultunavägen 62, S-722 17 Västerås (SE).

(74) Agents: ÖRTENBLAD, Bertil et al.; Noréns Patentbyrå AB, Box 10198, S-100 55 Stockholm (SE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF MAKING A HEATING ELEMENT OF THE MOLYBDENUM SILICIDE TYPE AND A HEATING ELEMENT

(57) Abstract: The present invention relates to a method of producing a heating element that is comprised essentially of molybdenum silicide and alloys of this basic material. The invention is characterised by producing a material that contains substantially Mo $(Si_{1-x}Al_x)_2$ and Al_2O_3 by mixing a molybdenum aluminium silicide Mo $(Si_{1-y}Al_y)_2$ with SiO_2 , wherein SiO_2 has a purity of at least 98 %. The invention also relates to a heating element.